cross multiple Early Adopter PI and institution	Applied Research Topic
SMAP Contact	
	mate Forecasting
Stephane Bélair, Meteorological Research Division, Environment	Assimilation and impact evaluation of observations from the SMAP mission in Environment Canada's Environmental Prediction Systems
Canada (EC); SMAP Contact: Stephane Bélair Lars Isaksen and Patricia de Rosnay, European Centre for Medium-	Monitoring SMAP soil moisture and brightness temperature at ECMW
Range Weather Forecasts (ECMWF); SMAP Contact: Eni Njoku	Monitoring SMAP soil moisture and originaless temperature at ECM w
Xiwu Zhan, Michael Ek, John Simko and Weizhong Zheng, NOAA	Transition of NASA SMAP research products to NOAA operational
National Centers for Environmental Prediction (NCEP), NOAA	numerical weather and seasonal climate predictions and research
National Environmental Satellite Data and Information Service	hydrological forecasts
(NOAA-NESDIS); SMAP Contact: Randy Koster	nydrorogical forecasts
Michael Ek, Marouane Temimi, Xiwu Zhan and Weizhong Zheng,	Integration of SMAP freeze/thaw product line into the NOAA NCEP
NOAA National Centers for Environmental Prediction (NCEP), NOAA	weather forecast models
National Environmental Satellite Data and Information Service	
(NOAA-NESDIS), City College of New York (CUNY); SMAP	
Contact: Chris Derksen	
John Galantowicz, Atmospheric and Environmental Research, Inc.	Use of SMAP-derived inundation and soil moisture estimates in the
(AER); SMAP Contact: John Kimball	quantification of biogenic greenhouse gas emissions
Jonathan Case, Clay Blankenship and Bradley Zavodsky, NASA	Data assimilation of SMAP observations, and impact on weather
Short-term Prediction Research and Transition (SPoRT) Center;	forecasts in a coupled simulation environment
SMAP Contact: Molly Brown	
	nd Wildfires
Jim Reardon and Gary Curcio, US Forest Service (USFS); SMAP	The use of SMAP soil moisture data to assess the wildfire potential of
Contact: Dara Entekhabi	organic soils on the North Carolina Coastal Plain
Chris Funk, Amy McNally and James Verdin, USGS & UC Santa	Incorporating soil moisture retrievals into the FEWS Land Data
Barbara; SMAP Contact: Molly Brown	Assimilation System (FLDAS)
Brian Wardlow and Mark Svoboda, Center for Advanced Land	Evaluation of SMAP soil moisture products for operational drought
Management Technologies (CALMIT), National Drought Mitigation	monitoring: potential impact on the U.S. Drought Monitor (USDM)
Center (NDMC); SMAP Contact: Narendra Das	
Uma Shankar, The University of North Carolina at Chapel Hill –	Enhancement of a Bottom-up Fire Emissions Inventory Using Earth
Institute for the Environment; SMAP Contact: Narendra Das	Observations to Improve Air Quality, Land Management, and Public
	Health Decision Support
	Landslides
Rafael Ameller, StormCenter Communications, Inc.; SMAP Contact:	SMAP for enhanced decision making
Randy Koster Kashif Rashid, UN World Food Programme; SMAP Contact: Eni	Application of a SMAP-based index for flood forecasting in data-poor
Njoku	regions
Konstantine Georgakakos, Hydrologic Research Center; SMAP	Development of a strategy for the evaluation of the utility of SMAP
Contact: Narendra Das	products for the Global Flash Flood Guidance Program of the
Contact. Ivarentia Das	Hydrologic Research Center
Fiona Shaw, Willis, Global Analytics; SMAP Contact: Robert	A risk identification and analysis system for insurance; eQUIP suite of
Gurney	custom catastrophe models, risk rating tools and risk indices for
Guriney	insurance and reinsurance purposes
Steven Quiring, Texas A&M University; SMAP Contact: Dara	Hurricane Power Outage Prediction
Entekhabi	Transcand Tower outlings Transcand
	Productivity
Catherine Champagne, Agriculture and Agri-Food Canada (AAFC);	Soil moisture monitoring in Canada
SMAP Contact: Stephane Bélair	8
Zhengwei Yang and Rick Mueller, USDA National Agricultural	US National cropland soil moisture monitoring using SMAP
Statistical Service (NASS); SMAP Contact: Wade Crow	
Amor Ines and Stephen Zebiak, International Research Institute for	SMAP for crop forecasting and food security early warning application
Climate and Society (IRI) Columbia University; SMAP Contact:	2 101 crop rerectioning and rood security earry warning apprication
Narendra Das	
Jingfeng Wang, Rafael Bras, Aris Georgakakos and Husayn El	Application of SMAP observations in modeling energy/water/carbon
Sharif, Georgia Institute of Technology (GT); SMAP Contact: Dara	cycles and its impact on weather and climatic predictions
	e joine and its impact on weather and emmatic predictions
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Entekhabi	Enhancing LICDA's global area and duction acceptance accept
Entekhabi Curt Reynolds, USDA Foreign Agricultural Service (FAS); SMAP	Enhancing USDA's global crop production monitoring system using
Entekhabi Curt Reynolds, USDA Foreign Agricultural Service (FAS); SMAP Contact: Wade Crow	SMAP soil moisture products
Entekhabi Curt Reynolds, USDA Foreign Agricultural Service (FAS); SMAP Contact: Wade Crow Alejandro Flores, Boise State University; SMAP Contact: Dara	SMAP soil moisture products Data fusion and assimilation to improve applications of predictive
Entekhabi Curt Reynolds, USDA Foreign Agricultural Service (FAS); SMAP Contact: Wade Crow Alejandro Flores, Boise State University; SMAP Contact: Dara Entekhabi	SMAP soil moisture products Data fusion and assimilation to improve applications of predictive ecohydrologic models in managed rangeland and forest ecosystems
Entekhabi Curt Reynolds, USDA Foreign Agricultural Service (FAS); SMAP Contact: Wade Crow Alejandro Flores, Boise State University; SMAP Contact: Dara Entekhabi Barbara S. Minsker, University of Illinois and sponsored by John	SMAP soil moisture products Data fusion and assimilation to improve applications of predictive
Entekhabi Curt Reynolds, USDA Foreign Agricultural Service (FAS); SMAP Contact: Wade Crow Alejandro Flores, Boise State University; SMAP Contact: Dara Entekhabi Barbara S. Minsker, University of Illinois and sponsored by John Deere Inc.; SMAP Contact: Wade Crow	SMAP soil moisture products Data fusion and assimilation to improve applications of predictive ecohydrologic models in managed rangeland and forest ecosystems Comprehensive, large-scale agriculture and hydrologic data synthesis
Entekhabi Curt Reynolds, USDA Foreign Agricultural Service (FAS); SMAP Contact: Wade Crow Alejandro Flores, Boise State University; SMAP Contact: Dara Entekhabi Barbara S. Minsker, University of Illinois and sponsored by John Deere Inc.; SMAP Contact: Wade Crow	SMAP soil moisture products Data fusion and assimilation to improve applications of predictive ecohydrologic models in managed rangeland and forest ecosystems

James Kitson, Andrew Walker and Cameron Hamilton, Yorkshire Water, UK; SMAP Contact: Robert Gurney	Using SMAP L-2 soil moisture data for added value to the understanding of land management practices and its impact on water quality	
Luigi Renzullo, Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia; SMAP Contact: Jeff Walker	Preparing the Australian Water Resources Assessment (AWRA) system for the assimilation of SMAP data	
Kyle McDonald and Don Pierson, City College of New York (CUNY) and CREST Institute, New York City Dept. of Environmental Protection; SMAP Contact: Erika Podest	Application of SMAP freeze/thaw and soil moisture products for supporting management of New York City's potable water supply	
National Security		
John Eylander and Susan Frankenstein, U.S. Army Engineer Research and Development Center (ERDC) Cold Regions Research and Engineering Laboratory (CRREL); SMAP Contact: Susan Moran	U. S. Army ERDC SMAP adoption for USACE civil and military tactical support	
Kyle McDonald, City College of New York (CUNY); SMAP Contact: Simon Yueh	Integration of SMAP datasets with the NRL environmental model for operational characterization of cryosphere processes across the north polar land-ocean domain	
Georg Heygster, Institute of Environmental Physics, University of Bremen, Germany; SMAP Contact: Simon Yueh	SMAP-Ice: Use of SMAP observations for sea ice remote sensing	
Gary McWilliams, George Mason, Li Li, Andrew Jones and Maria Stevens, Army Research Laboratory (ARL); U.S. Army Engineer Research and Development Center (ERDC) Geotechnical and Structures Laboratory (GSL); Naval Research Laboratory (NRL); and Colorado State University (CSU); SMAP Contact: Susan Moran	Exploitation of SMAP data for Army and Marine Corps mobility assessment	
Lars Kaleschke, Institute of Oceanography, University of Hamburg, Germany; SMAP Contact: Simon Yueh	SMOS to SMAP migration for cryosphere and climate application	
General		
Srini Sundaram, Agrisolum Limited, UK; SMAP Contact: Robert Gurney	Application of SMAP data products in Agrisolum - A bigdata social agritech platform	
Thomas Harris and Dave Hulslander, Exelis Visual Information Solutions; SMAP Contact: Barry Weiss	Utilization of SMAP Products in ENVI, IDL and SARscape - Products L1 to L4	